

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Terms	Documents
12 and 17	2

Database: 
 US Patents Full-Text Database  
 US Pre-Grant Publication Full-Text Database  
 JPO Abstracts Database  
 EPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Refine Search:

12 and 17

[Clear](#)**Search History****Today's Date: 6/27/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	12 and 17	2	<a href="#">L9</a>
USPT	((and/ )!.CCLS.  (17/ )!.CCLS.  (12/ )!.CCLS. )	0	<a href="#">L8</a>
USPT	((435/60.1  435/440  435/471  435/484  435/243  435/254  435/254.7 )!.CCLS. )	1534	<a href="#">L7</a>
USPT,JPAB,EPAB,DWPI	12 and (heterologous near3 (protein\$1 or polypeptide\$1))	26	<a href="#">L6</a>
USPT,JPAB,EPAB,DWPI	12 near10 (heterologous near3 (protein\$1 or polypeptide\$1))	0	<a href="#">L5</a>
USPT,JPAB,EPAB,DWPI	(teleomorph\$2 or synonym\$1) near5 12	1	<a href="#">L4</a>
USPT,JPAB,EPAB,DWPI	recombinant near10 12	1	<a href="#">L3</a>
USPT,JPAB,EPAB,DWPI	fusarium near3 venenatum	32	<a href="#">L2</a>
USPT,JPAB,EPAB,DWPI	5837847.pn. or 6180366.pn.	5	<a href="#">L1</a>

\$\$%^STN;HighlightOn= \*\*\*;HighlightOff=\*\*\* ;  
Trying 3106016892...Open

Welcome to STN International! Enter x:x  
LOGINID:ssspta1805rxy  
PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Dec 17 The CA Lexicon available in the CAPLUS and CA files  
NEWS 3 Feb 06 Engineering Information Encompass files have new names  
NEWS 4 Feb 16 TOXLINE no longer being updated  
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure  
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA  
NEWS 7 May 07 DGENE Reload  
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL

NEWS EXPRESS May 23 CURRENT WINDOWS VERSION IS V6.0a,  
CURRENT MACINTOSH VERSION IS V5.0C (ENG) AND V5.0JB (JP),  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2001

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 16:08:42 ON 27 JUN 2001

=> file caplus medline biosis

COST IN U.S. DOLLARS	SINCE FILE		TOTAL
	ENTRY	SESSION	
FULL ESTIMATED COST	0.15	0.15	

FILE 'CAPLUS' ENTERED AT 16:09:12 ON 27 JUN 2001  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 16:09:12 ON 27 JUN 2001

FILE 'BIOSIS' ENTERED AT 16:09:12 ON 27 JUN 2001  
COPYRIGHT (C) 2001 BIOSIS(R)

=> s fusarium near3 venenatum

L1 0 FUSARIUM NEAR3 VENENATUM

=> s venenatum

L2 66 VENENATUM

=> s fusaria (3n) venenatum

L3 0 FUSARIA (3N) VENENATUM

=> s fusari? (3n) venenatum

L4 55 FUSARI? (3N) VENENATUM

=> s l2 or l4

L5 66 L2 OR L4

=> s recombinant

L6 423537 RECOMBINANT

=> s l6 (10n) l5

L7 18 L6 (10N) L5

=> dup rem l7

PROCESSING COMPLETED FOR L7

L8 9 DUP REM L7 (9 DUPLICATES REMOVED)

=> s l8 and py<1995

2 FILES SEARCHED...

L9 0 L8 AND PY<1995

=> d l8 1-9 bib

L8 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 1

AN 2001:44223 CAPLUS

DN 134:265208

TI Combined use of growth rate correlated and growth rate independent promoters for \*\*\*recombinant\*\*\* glucoamylase production in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*

AU Gordon, C.; Thomas, S.; Griffen, A.; Robson, G. D.; Trinci, A. P. J.; Wiebe, M. G.

CS School of Biological Sciences, University of Manchester, Manchester, M13 9PT, UK

SO FEMS Microbiol. Lett. (2001), 194(2), 229-234

CODEN: FMLED7; ISSN: 0378-1097

PB Elsevier Science B.V.

DT Journal

LA English

RE.CNT 12

RE

(1) Berka, R; Appl Environ Microbiol 1998, V64, P4423 CAPLUS

(2) Mainwaring, D; J Biotechnol 1999, V75, P1 CAPLUS

(3) Moralejo, F; Appl Environ Microbiol 1999, V65, P1168 CAPLUS

(4) Royer, J; Biotechnology 1995, V13, P1479 CAPLUS

(5) Stouthamer, A; Trends Biotechnol 1987, V5, P149 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 2

AN 2001:244385 CAPLUS

TI Evolution of a \*\*\*recombinant\*\*\* (glucoamylase-producing) strain of \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* A3/5 in chemostat culture

AU Wiebe, Marilyn G.; Robson, Geoffrey D.; Shuster, Jeff; Trinci, Anthony P. J.

CS School of Biological Sciences, University of Manchester, Manchester, M13 9PT, UK

SO Biotechnol. Bioeng. (2001), 73(2), 146-156

CODEN: BIBIAU; ISSN: 0006-3592

PB John Wiley & Sons, Inc.

DT Journal

LA English

RE.CNT 47

RE

(1) Blinkovsky, A; Appl Environ Microbiol 1999, V65, P3298 CAPLUS

(3) Brody, S; Organizational biosynthesis 1967, P295 CAPLUS

(5) Da Silva, N; Biotechnol Bioeng 1991, V37, P309 CAPLUS

(9) Forss, K; US 3809614 1974 CAPLUS

(10) Francis, J; Genetics 1973, V74, P259 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2001 ACS

AN 2000:335565 CAPLUS

DN 133:2052

TI \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* and \*\*\*Fusarium\*\*\* verticillioides lysophospholipases, protein and cDNA sequences, \*\*\*recombinant\*\*\* expression and uses thereof

IN Berka, Randy M.; Rey, Michael W.; Byun, Tony; Itami, Ryoko; Tsutsumi, Noriko; Klotz, Alan

PA Novo Nordisk Biotech, Inc., USA; Novo Nordisk Bioindustry, Ltd.

SO PCT Int. Appl., 93 pp.

CODEN: PIDXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

PI	WO 2000028044	A1	20000518	WO 1999-US26789 19991110
----	---------------	----	----------	--------------------------

W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-189486 A 19981110

RE.CNT 2

RE

(1) Catchside, D; EMBL DATABASE 1998

(2) Novonordisk As; WO 9826057 A 1998 CAPLUS

L8 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2001 ACS

AN 2000:335564 CAPLUS

DN 133:2051

TI \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* lactonohydrolase, its sequence,

cDNA sequence encoding it, \*\*\*recombinant\*\*\* expression and use in preventing biofilm development  
IN Berka, Randy M.; Rey, Michael W.  
PA Novo Nordisk Biotech, Inc., USA  
SO PCT Int. Appl., 68 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000028043	A2	20000518	WO 1999-US26227	19991105
WO 2000028043	A3	20001005		
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI US 1998-189497	A	19981110		

L8 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 3  
AN 2000:278722 CAPLUS  
DN 133:16373  
TI Growth-rate-independent production of \*\*\*recombinant\*\*\* glucoamylase by \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325  
AU Wiebe, Marilyn G.; Robson, Geoffrey D.; Shuster, Jeff; Trinci, Anthony P. J.  
CS School of Biological Sciences, University of Manchester, Manchester, M13 9PT, UK  
SO Biotechnol. Bioeng. (2000), 68(3), 245-251  
CODEN: BIBIAU; ISSN: 0006-3592  
PB John Wiley & Sons, Inc.  
DT Journal  
LA English  
RE.CNT 36  
RE  
(1) Archer, D; Crit Rev Biotechnol 1997, V17, P273 CAPLUS  
(2) Berka, R; Appl Environ Microbiol 1998, V64, P4423 CAPLUS  
(3) Christensen, T; Bio/Technol 1988, V6, P1419 CAPLUS  
(4) de Hollander, J; Antonie van Leeuwenhoek 1993, V63, P375 CAPLUS  
(5) Gouka, R; Appl Environ Microbiol 1996, V62, P1951 CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 9 MEDLINE  
AN 1999326272 MEDLINE  
DN 99326272 PubMed ID: 10397874  
TI pH regulation of \*\*\*recombinant\*\*\* glucoamylase production in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, a transformant with a Fusarium oxysporum alkaline (trypsin-like) protease promoter.  
AU Wiebe M G; Robson G D; Shuster J R; Trinci A P  
SO BIOTECHNOLOGY AND BIOENGINEERING, (1999 Aug 5) 64 (3) 368-72.  
Journal code: A6N; 7502021. ISSN: 0006-3592.  
CY United States  
DT Letter  
LA English  
FS Priority Journals  
EM 199909  
ED Entered STN: 19990925  
Last Updated on STN: 20000303  
Entered Medline: 19990913

L8 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 4  
AN 1999:507603 CAPLUS  
DN 132:247793  
TI Purification, characterization, and heterologous expression in Fusarium venenatum of a novel serine carboxypeptidase from Aspergillus oryzae  
AU Blinkovsky, Alexander M.; Byun, Tony; Brown, Kimberly M.; Golightly, Elizabeth J.  
CS Novo Nordisk Biotech, Inc., Davis, CA, 95616, USA  
SO Appl. Environ. Microbiol. (1999), 65(8), 3298-3303  
CODEN: AEMIDF; ISSN: 0099-2240  
PB American Society for Microbiology  
DT Journal  
LA English  
RE.CNT 25  
RE  
(1) Arai, S; J Food Sci 1970, V35, P392 CAPLUS  
(3) Breddam, K; Carlsberg Res Commun 1988, V53, P309 CAPLUS  
(4) de Block, M; EMBO J 1987, V6, P2513 CAPLUS  
(6) Fujimaki, M; Agric Biol Chem 1973, V37, P2891 CAPLUS  
(7) Fujimaki, M; Food Technol 1968, V22, P889 CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 5  
AN 1999:408536 CAPLUS  
DN 131:182246  
TI pH regulation of \*\*\*recombinant\*\*\* glucoamylase production in

\*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, a transformant with a Fusarium oxysporum alkaline (trypsin-like) protease promoter  
AU Wiebe, Marilyn G.; Robson, Geoffrey D.; Shuster, Jeffrey R.; Trinci, Anthony P. J.  
CS School of Biological Sciences, University of Manchester, Manchester, M13 9PT, UK  
SO Biotechnol. Bioeng. (1999), 64(3), 368-372  
CODEN: BIBIAU; ISSN: 0006-3592  
PB John Wiley & Sons, Inc.  
DT Journal  
LA English  
RE.CNT 23  
RE  
(1) Bodie, E; Prog Ind Microbiol 1994, V29, P561 CAPLUS  
(2) Chou, C; Biotechnol Bioeng 1995, V47, P186 CAPLUS  
(3) Cohen, B; Arch Biochem Biophys 1975, V169, P324 CAPLUS  
(5) Cohen, B; J Gen Microbiol 1973, V77, P521 CAPLUS  
(6) Cohen, B; Trans Br Mycol Soc 1981, V76, P447 CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 9 MEDLINE DUPLICATE 6  
AN 1999013647 MEDLINE  
DN 99013647 PubMed ID: 9797301  
TI Molecular characterization and expression of a phytase gene from the thermophilic fungus Thermomyces lanuginosus.  
AU Berka R M; Rey M W; Brown K M; Byun T; Klotz A V  
CS Novo Nordisk Biotech, Davis, California 95616-4880, USA.  
SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (1998 Nov) 64 (11) 4423-7.  
Journal code: 6K6; 7605801. ISSN: 0099-2240.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199901  
ED Entered STN: 19990128  
Last Updated on STN: 19990128  
Entered Medline: 19990114

=> d his

(FILE 'HOME' ENTERED AT 16:08:42 ON 27 JUN 2001)

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 16:09:12 ON 27 JUN 2001

L1 0 S FUSARIUM NEAR3 VENENATUM  
L2 66 S VENENATUM  
L3 0 S FUSARIA (3N) VENENATUM  
L4 55 S FUSARI? (3N) VENENATUM  
L5 66 S L2 OR L4  
L6 423537 S RECOMBINANT  
L7 18 S L6 (10N) L5  
L8 9 DUP REM L7 (9 DUPLICATES REMOVED)  
L9 0 S L8 AND PY<1995

=> e royer john/au

E1 1 ROYER JEFFREY/AU  
E2 2 ROYER JEFFREY P/AU  
E3 1 --> ROYER JOHN/AU  
E4 23 ROYER JOHN C/AU  
E5 8 ROYER JOSEPH R/AU  
E6 1 ROYER JUDITH A/AU  
E7 1 ROYER JURGEN/AU  
E8 4 ROYER K/AU  
E9 2 ROYER K A/AU  
E10 1 ROYER KIM/AU  
E11 33 ROYER L/AU  
E12 1 ROYER L E/AU

=> s e3 or e4

L10 24 "ROYER JOHN"/AU OR "ROYER JOHN C"/AU

=> dup rem l10

PROCESSING COMPLETED FOR L10  
L11 18 DUP REM L10 (6 DUPLICATES REMOVED)

=> s l5 and l11

L12 1 L5 AND L11

=> d l12

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS  
AN 1999:634800 CAPLUS  
DN 132:274908

TI Deletion of the Trichodiene Synthase Gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* : Two Systems for Repeated Gene Deletions  
 AU \*\*\*Royer, John C.\*\*\* ; Christianson, Lynne M.; Yoder, Wendy T.;  
 Gambetta, Greg A.; Klotz, Alan V.; Morris, Carin L.; Brody, Howard; Otani,  
 Suzie  
 CS Novo Nordisk Biotech, Davis, CA, 95616, USA  
 SO Fungal Genet. Biol. (1999), 28(1), 68-78  
 CODEN: FGBIFV; ISSN: 1087-1845  
 PB Academic Press  
 DT Journal  
 LA English  
 RE.CNT 31  
 RE  
 (1) Alani, E; Genetics 1987, V116, P541 CAPLUS  
 (2) Altomare, C; Mycopathologia 1995, V129, P177 CAPLUS  
 (4) Cove, D; Biochem Biophys Acta 1966, V113, P51 CAPLUS  
 (5) Cove, D; Biol Rev 1979, V54, P291 CAPLUS  
 (6) Daboussi, M; Curr Genet 1989, V15, P453 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d112 hit

DL12 IS NOT A RECOGNIZED COMMAND  
 The previous command name entered was not recognized by the system.  
 For a list of commands available to you in the current file, enter  
 "HELP COMMANDS" at an arrow prompt (=>).

=> d l12 hit

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS  
 TI Deletion of the Trichodiene Synthase Gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* : Two Systems for Repeated Gene Deletions  
 AU \*\*\*Royer, John C.\*\*\* ; Christianson, Lynne M.; Yoder, Wendy T.;  
 Gambetta, Greg A.; Klotz, Alan V.; Morris, Carin L.; Brody, Howard; Otani,  
 Suzie  
 AB The trichodiene synthase (tri5) gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* was cloned from a genomic library. Vectors were  
 created  
 in which the tri5 coding sequence was replaced with the Neurospora crassa  
 nitrate reductase (nit3) gene and with the Aspergillus nidulans  
 acetamidase (amdS) gene flanked by direct repeats. The first vector was  
 utilized to transform a nitrate reductase (niaD) mutant of F.  
 \*\*\*venenatum\*\*\* to prototrophy, and the second vector was utilized to  
 confer acetamide utilization to the wild-type strain. Several of the  
 transformants lost the capacity to produce the trichothecene  
 diacetoxyscirpenol and were shown by hybridization anal. to have gene  
 replacements at the tri5 locus. The nit3 gene was removed by  
 retransformation with a tri5 deletion fragment and selection on chlorate.  
 The amdS gene was shown to excise spontaneously via the flanking direct  
 repeats when spores were plated onto fluoroacetamide. (c) 1999 Academic  
 Press.

IT Gene, microbial  
 RL: BPR (Biological process); BUU (Biological use, unclassified); BIOL  
 (Biological study); PROC (Process); USES (Uses)  
 (amdS; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT Mutation  
 (deletion; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT Gene, microbial  
 RL: BPR (Biological process); BUU (Biological use, unclassified); BIOL  
 (Biological study); PROC (Process); USES (Uses)  
 (nit3; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT Gene, microbial  
 RL: ADV (Adverse effect, including toxicity); BPR (Biological process);  
 BIOL (Biological study); PROC (Process)  
 (tri5; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT Fusarium venenotum  
 Genetic markers  
 Genetic selection  
 Genetic vectors  
 Transformation, genetic  
 (trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*  
 cloning and replacement with selectable markers)

IT 101915-76-8, Trichodiene Synthase  
 RL: ADV (Adverse effect, including toxicity); BPR (Biological process);  
 BIOL (Biological study); PROC (Process)  
 (gene for; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT 9013-03-0, Nitrate reductase 37237-35-7, Acetamidase  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (gene for; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT 2270-40-8, 4,15-Diacetoxyscirpenol  
 RL: ADV (Adverse effect, including toxicity); FFD (Food or feed use); MFM

(Metabolic formation); REM (Removal or disposal); BIOL (Biological study);  
 FORM (Formation, nonpreparative); PROC (Process); USES (Uses)  
 (trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*  
 cloning and replacement with selectable markers)

IT 640-19-7, Fluoroacetamide 14866-68-3, Chlorate  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*  
 cloning and replacement with selectable markers)

IT 190208-44-7, Quom  
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)  
 (trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*  
 cloning and replacement with selectable markers)

=> e moyer donna/au

E1	2	MOYER DONALD J/AU
E2	1	MOYER DONALD L/AU
E3	3 -->	MOYER DONNA/AU
E4	13	MOYER DONNA L/AU
E5	17	MOYER E/AU
E6	23	MOYER E D/AU
E7	2	MOYER E E/AU
E8	1	MOYER E H/AU
E9	9	MOYER E J/AU
E10	3	MOYER E K/AU
E11	2	MOYER E L JR/AU
E12	1	MOYER E M/AU

=> s e3 or e4

L13 16 "MOYER DONNA"/AU OR "MOYER DONNA L"/AU

=> dup re, l13

'RE' IS NOT VALID HERE  
 Enter "REMOVE" to identify and remove duplicate answers.  
 Enter "IDENTIFY" to identify duplicate answers in the answer set.  
 Enter "ONLY" to identify and create an answer set containing only  
 duplicate records.  
 ENTER REMOVE, IDENTIFY, ONLY, OR (?):end

=> dup rem l13

PROCESSING COMPLETED FOR L13  
 L14 12 DUP REM L13 (4 DUPLICATES REMOVED)

=> d his

(FILE 'HOME' ENTERED AT 16:08:42 ON 27 JUN 2001)

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 16:09:12 ON 27 JUN 2001

L1	0 S FUSARIUM NEAR3 VENENATUM
L2	66 S VENENATUM
L3	0 S FUSARIA (3N) VENENATUM
L4	55 S FUSARI? (3N) VENENATUM
L5	66 S L2 OR L4
L6	423537 S RECOMBINANT
L7	18 S L6 (10N) L5
L8	9 DUP REM L7 (9 DUPLICATES REMOVED)
L9	0 S L8 AND PY<1995
	E ROYER JOHN/AU
L10	24 S E3 OR E4
L11	18 DUP REM L10 (6 DUPLICATES REMOVED)
L12	1 S L5 AND L11
	E MOYER DONNA/AU
L13	16 S E3 OR E4
L14	12 DUP REM L13 (4 DUPLICATES REMOVED)

=> s l14 and l11

L15 3 L14 AND L11

=> d l15 1-3 bib

L15 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2001 ACS  
 AN 2000:305584 CAPLUS  
 DN 132:318605  
 TI Non-toxic, non-toxicogenic, non-pathogenic Fusarium expression system  
 IN \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Wendy, Yoder T.;  
 Shuster, Jeffrey R.  
 PA Novo Nordisk Biotech, Inc., USA  
 SO U.S., 32 pp., Cont.-in-part of U.S. Ser. No. 726,105, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6060305	A	20000509	US 1997-816915	19970313
JP 2001169791	A2	20010626	JP 2000-349977	19950615
US 5837847	A	19981117	US 1997-921426	19970829
PRAI US 1994-269449	B2	19940630		
US 1995-404678	B2	19950315		
US 1996-726105	B2	19961004		
US 1995-456433	B1	19950601		
JP 1996-503267	A3	19950615		

RE.CNT 6

RE

(1) Blaiseu; US 5446138 1995 CAPLUS

(2) Daboussi; Curr Genet 1989

(3) Dickman; Mol Gen Genet 1992

(4) Nelson; Clinical Microbiology Reviews 1994, V7(4), P479 MEDLINE

(6) Towersey; US 4041189 1977 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS

AN 1996:147846 CAPLUS

DN 124:195983

TI Non-toxic, non-toxicogenic, non-pathogenic Fusarium expression system and promoters and terminators for use therein

IN \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Yoder, Wendy; Shuster, Jeffrey R.

PA Novo Nordisk Biotech, Inc., USA

SO PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9600787	A1	19960111	WO 1995-US7743	19950615
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9527058	A1	19960125	AU 1995-27058	19950615
CN 1151762	A	19970611	CN 1995-193875	19950615
EP 777737	A1	19970611	EP 1995-922334	19950615
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 10500024	T2	19980106	JP 1995-503267	19950615
JP 2001169791	A2	20010626	JP 2000-349977	19950615
FI 9605220	A	19970225	FI 1996-5220	19961227
US 5837847	A	19981117	US 1997-921426	19970829
PRAI US 1994-269449	A	19940630		
US 1995-404678	A	19950315		
US 1995-456433	B1	19950601		
JP 1996-503267	A3	19950615		
WO 1995-US7743	W	19950615		

L15 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS

AN 1995:973338 CAPLUS

DN 124:77587

TI Fusarium graminearum A 3/5 as a novel host for heterologous protein production

AU \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Reiwitch, Sarah G.; Madden, Mark S.; Jensen, Ejner Bech; Brown, Stephen H.; Yonker, Cynthia C.; Johnstone, James A.; Golightly, Elizabeth J.; et al.

CS Novo Nordisk Biotech, Inc., Davis, CA, 95616, USA

SO Bio/Technology (1995), 13(13), 1479-83

CODEN: BTCHDA; ISSN: 0733-222X

DT Journal

LA English

=> d I15 3 hit

L15 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS

AU \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Reiwitch, Sarah G.; Madden, Mark S.; Jensen, Ejner Bech; Brown, Stephen H.; Yonker, Cynthia C.; Johnstone, James A.; Golightly, Elizabeth J.; et al.

=> d I15 1-3 bib hit

L15 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2001 ACS

AN 2000:305584 CAPLUS

DN 132:318605

TI Non-toxic, non-toxicogenic, non-pathogenic Fusarium expression system

IN \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Wendy, Yoder T.; Shuster, Jeffrey R.

PA Novo Nordisk Biotech, Inc., USA

SO U.S., 32 pp., Cont.-in-part of U.S. Ser. No. 726,105, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6060305	A	20000509	US 1997-816915	19970313
JP 2001169791	A2	20010626	JP 2000-349977	19950615
US 5837847	A	19981117	US 1997-921426	19970829
PRAI US 1994-269449	B2	19940630		
US 1995-404678	B2	19950315		
US 1996-726105	B2	19961004		
US 1995-456433	B1	19950601		
JP 1996-503267	A3	19950615		

RE.CNT 6

RE

(1) Blaiseu; US 5446138 1995 CAPLUS

(2) Daboussi; Curr Genet 1989

(3) Dickman; Mol Gen Genet 1992

(4) Nelson; Clinical Microbiology Reviews 1994, V7(4), P479 MEDLINE

(6) Towersey; US 4041189 1977 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

IN \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Wendy, Yoder T.; Shuster, Jeffrey R.

L15 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS

AN 1996:147846 CAPLUS

DN 124:195983

TI Non-toxic, non-toxicogenic, non-pathogenic Fusarium expression system and promoters and terminators for use therein

IN \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Yoder, Wendy; Shuster, Jeffrey R.

PA Novo Nordisk Biotech, Inc., USA

SO PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9600787	A1	19960111	WO 1995-US7743	19950615
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9527058	A1	19960125	AU 1995-27058	19950615
CN 1151762	A	19970611	CN 1995-193875	19950615
EP 777737	A1	19970611	EP 1995-922334	19950615
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 10500024	T2	19980106	JP 1995-503267	19950615
JP 2001169791	A2	20010626	JP 2000-349977	19950615
FI 9605220	A	19970225	FI 1996-5220	19961227
US 5837847	A	19981117	US 1997-921426	19970829
PRAI US 1994-269449	A	19940630		
US 1995-404678	A	19950315		
US 1995-456433	B1	19950601		
JP 1996-503267	A3	19950615		
WO 1995-US7743	W	19950615		

IN \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Yoder, Wendy; Shuster, Jeffrey R.

L15 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS

AN 1995:973338 CAPLUS

DN 124:77587

TI Fusarium graminearum A 3/5 as a novel host for heterologous protein production

AU \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Reiwitch, Sarah G.; Madden, Mark S.; Jensen, Ejner Bech; Brown, Stephen H.; Yonker, Cynthia C.; Johnstone, James A.; Golightly, Elizabeth J.; et al.

CS Novo Nordisk Biotech, Inc., Davis, CA, 95616, USA

SO Bio/Technology (1995), 13(13), 1479-83

CODEN: BTCHDA; ISSN: 0733-222X

DT Journal

LA English

AU \*\*\*Royer, John C.\*\*\* ; \*\*\*Moyer, Donna L.\*\*\* ; Reiwitch, Sarah G.; Madden, Mark S.; Jensen, Ejner Bech; Brown, Stephen H.; Yonker, Cynthia C.; Johnstone, James A.; Golightly, Elizabeth J.; et al.

=> e yoder wendy/au

E1 4 YODER W G/AU

E2 3 YODER W T/AU

E3 3 --> YODER WENDY/AU

E4 10 YODER WENDY T/AU  
 E5 1 YODER WILLIAMS M/AU  
 E6 4 YODER WILLIAMS M P/AU  
 E7 1 YODER WILLIAMS MICHAEL/AU  
 E8 1 YODER WILLIAMS MICHAEL P/AU  
 E9 6 YODER WISE P S/AU  
 E10 1 YODER Y B/AU  
 E11 2 YODER Y J/AU  
 E12 1 YODER YOLANDA J/AU

=> s e2-e4

L16 16 ("YODER W T"/AU OR "YODER WENDY"/AU OR "YODER WENDY T"/AU)

=> d his

(FILE 'HOME' ENTERED AT 16:08:42 ON 27 JUN 2001)

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 16:09:12 ON 27 JUN 2001

L1 0 S FUSARIUM NEAR3 VENENATUM  
 L2 66 S VENENATUM  
 L3 0 S FUSARIA (3N) VENENATUM  
 L4 55 S FUSARI? (3N) VENENATUM  
 L5 66 S L2 OR L4  
 L6 423537 S RECOMBINANT  
 L7 18 S L6 (10N) L5  
 L8 9 DUP REM L7 (9 DUPLICATES REMOVED)  
 L9 0 S L8 AND PY<1995  
 E ROYER JOHN/AU  
 L10 24 S E3 OR E4  
 L11 18 DUP REM L10 (6 DUPLICATES REMOVED)  
 L12 1 S L5 AND L11  
 E MOYER DONNA/AU  
 L13 16 S E3 OR E4  
 L14 12 DUP REM L13 (4 DUPLICATES REMOVED)  
 L15 3 S L14 AND L11  
 E YODER WENDY/AU  
 L16 16 S E2-E4

=> s l16 and l5

L17 8 L16 AND L5

=> dup rem l17

PROCESSING COMPLETED FOR L17

L18 4 DUP REM L17 (4 DUPLICATES REMOVED)

=> d l18 1-4 bib hit

L18 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2001 ACS

AN 2000:493694 CAPLUS

DN 133:130762

TI Methods for producing polypeptides in cyclohexadepsipeptide-deficient cells

IN Berka, Randy M.; Rey, Michael W.; \*\*\*Yoder, Wendy T.\*\*\*

PA Novo Nordisk Biotech, Inc., USA

SO PCT Int. Appl., 76 pp.

CODEN: PIDXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000042203	A2	20000720	WO 2000-US913	20000113
WO 2000042203	A3	20001214		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI US 1999-229862 A 19990113

IN Berka, Randy M.; Rey, Michael W.; \*\*\*Yoder, Wendy T.\*\*\*

AB The present invention relates to methods for producing a heterologous polypeptide, comprising: (a) cultivating a mutant of a parent filamentous fungal cell under conditions conducive for the prodn. of the heterologous polypeptide, wherein (i) the mutant cell comprises a nucleic acid sequence encoding the heterologous polypeptide and (ii) the mutant produces less of the cyclohexadepsipeptide than the parent filamentous fungal cell when cultured under the same conditions; and (b) isolating the heterologous polypeptide from the cultivation medium. The present invention also relates to mutants of filamentous fungal cells and methods for obtaining the mutant cells. The present invention also relates to isolated

cyclohexadepsipeptide synthetase from \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\*

ATCC 20334 and isolated nucleic acid sequences encoding the cyclohexadepsipeptide synthetase. The present invention also relates to nucleic acid constructs, vectors, and host cells comprising the nucleic acid sequences as well as methods for producing the cyclohexadepsipeptide synthetases. The present invention further relates to cyclohexadepsipeptides produced by the cyclohexadepsipeptide synthetases.

IT Protein sequences  
 (of cyclohexadepsipeptide synthetase from \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* )

IT DNA sequences  
 (of cyclohexadepsipeptide synthetase gene dps1 from \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* )

L18 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 1

AN 1999:634800 CAPLUS

DN 132:274908

TI Deletion of the Trichodiene Synthase Gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* : Two Systems for Repeated Gene Deletions

AU Royer, John C.; Christianson, Lynne M.; \*\*\*Yoder, Wendy T.\*\*\* ; Gambetta, Greg A.; Klotz, Alan V.; Morris, Carin L.; Brody, Howard; Otani, Suzie

CS Novo Nordisk Biotech, Davis, CA, 95616, USA

SO Fungal Genet. Biol. (1999), 28(1), 68-78

CODEN: FGBIFV; ISSN: 1087-1845

PB Academic Press

DT Journal

LA English

RE.CNT 31

RE

(1) Alani, E; Genetics 1987, V116, P541 CAPLUS

(2) Altomare, C; Mycopathologia 1995, V129, P177 CAPLUS

(4) Cove, D; Biochem Biophys Acta 1966, V113, P51 CAPLUS

(5) Cove, D; Biol Rev 1979, V54, P291 CAPLUS

(6) Daboussi, M; Curr Genet 1989, V15, P453 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Deletion of the Trichodiene Synthase Gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* : Two Systems for Repeated Gene Deletions

AU Royer, John C.; Christianson, Lynne M.; \*\*\*Yoder, Wendy T.\*\*\* ; Gambetta, Greg A.; Klotz, Alan V.; Morris, Carin L.; Brody, Howard; Otani, Suzie

AB The trichodiene synthase (tri5) gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* was cloned from a genomic library. Vectors were created

in which the tri5 coding sequence was replaced with the Neurospora crassa nitrate reductase (nit3) gene and with the Aspergillus nidulans acetamidase (amdS) gene flanked by direct repeats. The first vector was utilized to transform a nitrate reductase (niaD) mutant of F.

\*\*\*venenatum\*\*\* to prototrophy, and the second vector was utilized to confer acetamide utilization to the wild-type strain. Several of the transformants lost the capacity to produce the trichothecene diacetoxyscirpenol and were shown by hybridization anal. to have gene replacements at the tri5 locus. The nit3 gene was removed by retransformation with a tri5 deletion fragment and selection on chlorate. The amdS gene was shown to excise spontaneously via the flanking direct repeats when spores were plated onto fluoroacetamide. (c) 1999 Academic Press.

IT Gene, microbial  
 RL: BPR (Biological process); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)

(amdS; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT Mutation  
 (deletion; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT Gene, microbial  
 RL: BPR (Biological process); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)  
 (nit3; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT Gene, microbial  
 RL: ADV (Adverse effect, including toxicity); BPR (Biological process); BIOL (Biological study); PROC (Process)  
 (tri5; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT Fusarium venenotum  
 Genetic markers  
 Genetic selection  
 Genetic vectors  
 Transformation, genetic  
 (trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*  
 cloning and replacement with selectable markers)

IT 101915-76-8, Trichodiene Synthase  
 RL: ADV (Adverse effect, including toxicity); BPR (Biological process); BIOL (Biological study); PROC (Process)  
 (gene for; trichodiene synthase tri5 gene of \*\*\*Fusarium\*\*\*  
 \*\*\*venenatum\*\*\* cloning and replacement with selectable markers)

IT 9013-03-0, Nitrate reductase 37237-35-7, Acetamidase

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(gene for; trichodiene synthase tr15 gene of \*\*\*Fusarium\*\*\*  
\*\*\*venenatum\*\*\* cloning and replacement with selectable markers)  
IT 2270-40-8, 4,15-Diacetoxyscirpenol  
RL: ADV (Adverse effect, including toxicity); FFD (Food or feed use); MFM  
(Metabolic formation); REM (Removal or disposal); BIOL (Biological study);  
FORM (Formation, nonpreparative); PROC (Process); USES (Uses)  
(trichodiene synthase tr15 gene of \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*  
cloning and replacement with selectable markers)  
IT 640-19-7, Fluoroacetamide 14866-68-3, Chlorate  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(trichodiene synthase tr15 gene of \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*  
cloning and replacement with selectable markers)  
IT 190208-44-7, Quorn  
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)  
(trichodiene synthase tr15 gene of \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*  
cloning and replacement with selectable markers)

L18 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 2  
AN 1998:171114 CAPLUS  
DN 128:255081  
TI Species-specific primers resolve members of *Fusarium* section *Fusarium*.  
Taxonomic status of the edible "Quorn" fungus reevaluated  
AU \*\*\*Yoder, Wendy T.\*\*\* ; Christianson, Lynne M.  
CS Novo Nordisk Biotech. Inc., Davis, CA, 95616, USA  
SO Fungal Genet. Biol. (1998), 23(1), 68-80  
CODEN: FGBIFV; ISSN: 1087-1845  
PB Academic Press  
DT Journal  
LA English  
AU \*\*\*Yoder, Wendy T.\*\*\* ; Christianson, Lynne M.  
AB Sixty-seven authentic isolates, representing six species from *Fusarium*  
section *Fusarium* (= section *Discolor*) were subjected to random amplified  
polymorphic DNA (RAPD) anal. and polymerase chain reaction using  
species-specific primers. Remarkably uniform RAPD banding patterns were  
obtained intraspecifically, irrespectively of the geog. origin of the isolates or  
the host/substratum from which they were isolated. Isolates were also  
assessed for colony characteristics when grown on a defined minimal  
medium. The Quorn strain (ATCC 20334; previously considered to be *F.*  
*graminearum*) matched the *F.* \*\*\*venenatum\*\*\* strains exclusively in  
RAPD profile. In addn., equivalently sized DNA fragments amplified from  
ATCC 20334 and two authentic *F.* \*\*\*venenatum\*\*\* strains were  
identical  
with respect to DNA sequence. Our mol. and morphol. data support the  
identification of the Quorn strain as *F.* \*\*\*venenatum\*\*\* Nirenberg (= *F.*  
*sambucinum* Fuckel sensu lato).

L18 ANSWER 4 OF 4 BIOSIS COPYRIGHT 2001 BIOSIS  
AN 1997:497297 BIOSIS  
DN PREV199799796500  
TI RAPD-derived primers for distinguishing members of the section *Fusarium*.  
AU \*\*\*Yoder, Wendy T.\*\*\* ; Christianson, Lynne M.  
CS Novo Nordisk Biotech Inc., 1445 Drew Ave., Davis, CA 95616 USA  
SO Cereal Research Communications, (1997) Vol. 25, No. 3 PART 2, pp:  
571-575.  
ISSN: 0133-3720.  
DT Article  
LA English  
AU \*\*\*Yoder, Wendy T.\*\*\* ; Christianson, Lynne M.  
ORGN Super Taxa  
Fungi Imperfecti or Deuteromycetes: Fungi, Plantae  
ORGN Organism Name  
*Fusarium* (Fungi Imperfecti or Deuteromycetes); *Fusarium cerealis* (Fungi  
Imperfecti or Deuteromycetes); *Fusarium culmorum* (Fungi Imperfecti or  
Deuteromycetes); *Fusarium graminearum* (Fungi Imperfecti or  
Deuteromycetes); *Fusarium sambucinum* (Fungi Imperfecti or  
Deuteromycetes); *Fusarium torulosum* (Fungi Imperfecti or  
Deuteromycetes); \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* (Fungi  
Imperfecti or Deuteromycetes)  
ORGN Organism Superterms  
fungi; microorganisms; nonvascular plants; plants

=> e shuster jeffrey/au

E1 1 SHUSTER J S/AU  
E2 6 SHUSTER JEFF/AU  
E3 2 --> SHUSTER JEFFREY/AU  
E4 46 SHUSTER JEFFREY R/AU  
E5 1 SHUSTER JEFFREY RICHARD/AU  
E6 2 SHUSTER JERRY P/AU  
E7 3 SHUSTER JILL/AU  
E8 2 SHUSTER JILL E/AU  
E9 1 SHUSTER JOE/AU  
E10 1 SHUSTER JOHN/AU  
E11 1 SHUSTER JOHN J/AU

E12 1 SHUSTER JOHN K/AU

=> s e2-e5

L19 55 ("SHUSTER JEFF"/AU OR "SHUSTER JEFFREY"/AU OR "SHUSTER  
JEFFREY  
R"/AU OR "SHUSTER JEFFREY RICHARD"/AU)

=> s I19 and I5

L20 7 L19 AND L5

=> dup rem I20

PROCESSING COMPLETED FOR L20

L21 4 DUP REM L20 (3 DUPLICATES REMOVED)

=> d I21 1-4 bib hit

L21 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 1  
AN 2001:244385 CAPLUS  
TI Evolution of a recombinant (glucoamylase-producing) strain of  
\*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* A3/5 in chemostat culture  
AU Wiebe, Marilyn G.; Robson, Geoffrey D.; \*\*\*Shuster, Jeff\*\*\* ; Trinci,  
Anthony P. J.  
CS School of Biological Sciences, University of Manchester, Manchester, M13  
9PT, UK  
SO Biotechnol. Bioeng. (2001), 73(2), 146-156  
CODEN: BIBIAU; ISSN: 0006-3592  
PB John Wiley & Sons, Inc.  
DT Journal  
LA English  
RE CNT 47  
RE  
(1) Blinksy, A; Appl Environ Microbiol 1999, V65, P3298 CAPLUS  
(3) Brody, S; Organizational biosynthesis 1967, P295 CAPLUS  
(5) Da Silva, N; Biotechnol Bioeng 1991, V37, P309 CAPLUS  
(9) Forss, K; US 3809614 1974 CAPLUS  
(10) Francis, J; Genetics 1973, V74, P259 CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT  
TI Evolution of a recombinant (glucoamylase-producing) strain of  
\*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* A3/5 in chemostat culture  
AU Wiebe, Marilyn G.; Robson, Geoffrey D.; \*\*\*Shuster, Jeff\*\*\* ; Trinci,  
Anthony P. J.  
AB \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325 is a transformant of  
strain A3/5 which produces *Aspergillus niger* glucoamylase (GAM) under the  
control of a *Fusarium oxysporum* trypsin-like protease promoter. The  
evolution of JeRS 325 was studied in glucose-limited chemostat cultures  
grown on NaNO3 or (NH4)2SO4 as the nitrogen source. Thirteen mutants  
which were more highly branched and four mutants which were more  
sparsely  
branched than the parental strain were isolated from the NaNO3 chemostat.  
The highly branched mutants detected in this chemostat did not displace  
the sparsely branched population. The mutants isolated from the NaNO3  
chemostat complemented representative strains previously isolated from  
glucose-limited chemostat cultures of *F.* \*\*\*venenatum\*\*\* A3/5 grown  
on  
(NH4)2SO4, but showed little complementation between themselves. By  
contrast, a highly branched mutant isolated from the (NH4)2SO4 chemostat  
culture displaced the sparsely branched mycelial population. None of the  
mutants isolated from the NaNO3 or (NH4)2SO4 chemostats produced as  
much  
GAM as JeRS 325. Southern blot anal. showed that all except one mutant  
had lost copies of both the glucoamylase and the acetamidase (the  
selectable marker) genes. However, specific GAM prodn. was not  
necessarily correlated with the extent of glaA gene loss obsd. Further,  
10 of the mutants had lost the ability to grow on acetamide as the sole  
nitrogen source, although they retained copies of the amdS gene. In  
competition studies, mutants which could not utilize acetamide displaced  
mutants which could. The presence of foreign DNA in JeRS 325 resulted in  
a reduced specific growth rate (compared to A3/5), but the presence of the  
foreign DNA did not prevent the evolution of the strain or the isolation  
of mutants which had improved growth rates.  
IT Fermentation apparatus  
(chemostat; evolution of recombinant glucoamylase-producing strain of  
\*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* in chemostat culture)  
IT Evolution  
*Fusarium venenotum*  
(evolution of recombinant glucoamylase-producing strain of  
\*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* in chemostat culture)  
IT 9032-08-0, Glucoamylase  
RL: BOC (Biological occurrence); BIOL (Biological study); OCCU  
(Occurrence)  
(evolution of recombinant glucoamylase-producing strain of  
\*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* in chemostat culture)

L21 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2001 ACS  
AN 2000:688262 CAPLUS  
DN 133:277141

TI Microarrays of ESTs for monitoring multiple gene expression in filamentous fungi  
 IN Berka, Randy M.; Rey, Michael W.; \*\*\*Shuster, Jeffrey R.\*\*\* ; Kauppinen, Sakari; Clausen, Ib Groth; Olsen, Peter Bjarke  
 PA Novo Nordisk Biotech, Inc., USA; Novo Nordisk A/S  
 SO PCT Int. Appl., 3161 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000056762	A2	20000928	WO 2000-US7781	20000322

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 PRAI US 1999-273623 A 19990322  
 IN Berka, Randy M.; Rey, Michael W.; \*\*\*Shuster, Jeffrey R.\*\*\* ; Kauppinen, Sakari; Clausen, Ib Groth; Olsen, Peter Bjarke  
 AB The present invention relates to methods for monitoring differential expression of a plurality of genes in a first filamentous fungal cell relative to expression of the same genes in one or more second filamentous fungal cells using microarrays contg. filamentous fungal expressed sequenced tags. The present invention also relates to filamentous fungal expressed sequenced tags and to computer readable media and substrates contg. such expressed sequenced tags for monitoring expression of a plurality of genes in filamentous fungal cells. DNA sequences are provided for 3770 ESTs from \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\*, 606 ESTs from *Aspergillus niger*, 4024 ESTs from *Aspergillus oryzae*, and 459 ESTs from *Trichoderma reesei*.

L21 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 2  
 AN 2000:278722 CAPLUS  
 DN 133:16373  
 TI Growth-rate-independent production of recombinant glucoamylase by \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325  
 AU Wiebe, Marilyn G.; Robson, Geoffrey D.; \*\*\*Shuster, Jeff\*\*\* ; Trinci, Anthony P. J.  
 CS School of Biological Sciences, University of Manchester, Manchester, M13 9PT, UK  
 SO Biotechnol. Bioeng. (2000), 68(3), 245-251  
 CODEN: BIBIAU; ISSN: 0006-3592  
 PB John Wiley & Sons, Inc.  
 DT Journal  
 LA English  
 RE.CNT 36  
 RE  
 (1) Archer, D; Crit Rev Biotechnol 1997, V17, P273 CAPLUS  
 (2) Berka, R; Appl Environ Microbiol 1998, V64, P4423 CAPLUS  
 (3) Christensen, T; Bio/Technol 1988, V6, P1419 CAPLUS  
 (4) de Hollander, J; Antonie van Leeuwenhoek 1993, V63, P375 CAPLUS  
 (5) Gouka, R; Appl Environ Microbiol 1996, V62, P1951 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT  
 TI Growth-rate-independent production of recombinant glucoamylase by \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325  
 AU Wiebe, Marilyn G.; Robson, Geoffrey D.; \*\*\*Shuster, Jeff\*\*\* ; Trinci, Anthony P. J.  
 AB Most recombinant proteins generated in filamentous fungi are produced in fed-batch cultures, in which specific growth rate normally decreases progressively with time. Because of this, such cultures are more suited to the prodn. of products that are produced efficiently at low-growth rates (e.g., penicillin) than to products which are produced more efficiently at high-growth rates (e.g., glucoamylase). \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* A3/5 has been transformed (JeRS 325) to produce *Aspergillus niger* glucoamylase (GAM) under the control of the *Fusarium oxysporum* trypsin-like protease promoter. No glucoamylase was detected in the culture supernatant during exponential growth of F. \*\*\*venenatum\*\*\* JeRS 325 in batch culture. In glucose-limited chemostat cultures, GAM concn. increased with decrease in diln. rate, but the specific prodn. rate of GAM (g GAM [g biomass]-1 h-1) remained approx. const. over the diln.-rate range 0.05 h to 0.19 h-1, i.e., the recombinant protein was produced in a growth-rate-independent manner. The specific prodn. rate decreased at diln. rates of 0.04 h-1 and below. Specific prodn. rates of 5.8 mg and 4.0 mg GAM [g biomass]-1 h-1 were obsd. in glucose-limited chemostat cultures in the presence and absence of 1 g mycol. peptone L-1. Compared to prodn. in batch culture, and for the same final vol. of medium, there was no increase in glucoamylase prodn. when cultures were grown in fed-batch culture. The results suggested that a chemostat operated at a slow diln. rate would be the most productive culture system for enzyme prodn. under this trypsin-like promoter.  
 IT Fermentation  
 (continuous; growth-rate-independent prodn. of recombinant glucoamylase by \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325)

IT *Aspergillus niger*  
*Fusarium venenatum*  
 (growth-rate-independent prodn. of recombinant glucoamylase by \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325)  
 IT 9032-08-0P, Glucoamylase  
 RL: BMF (BioIndustrial manufacture); BIOL (Biological study); PREP (Preparation)  
 (growth-rate-independent prodn. of recombinant glucoamylase by \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325)  
 L21 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 3  
 AN 1999:408536 CAPLUS  
 DN 131:182246  
 TI pH regulation of recombinant glucoamylase production in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, a transformant with a *Fusarium oxysporum* alkaline (trypsin-like) protease promoter  
 AU Wiebe, Marilyn G.; Robson, Geoffrey D.; \*\*\*Shuster, Jeffrey R.\*\*\* ; Trinci, Anthony P. J.  
 CS School of Biological Sciences, University of Manchester, Manchester, M13 9PT, UK  
 SO Biotechnol. Bioeng. (1999), 64(3), 368-372  
 CODEN: BIBIAU; ISSN: 0006-3592  
 PB John Wiley & Sons, Inc.  
 DT Journal  
 LA English  
 RE.CNT 23  
 RE  
 (1) Bodie, E; Prog Ind Microbiol 1994, V29, P561 CAPLUS  
 (2) Chou, C; Biotechnol Bioeng 1995, V47, P186 CAPLUS  
 (3) Cohen, B; Arch Biochem Biophys 1975, V169, P324 CAPLUS  
 (5) Cohen, B; J Gen Microbiol 1973, V77, P521 CAPLUS  
 (6) Cohen, B; Trans Br Mycol Soc 1981, V76, P447 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT  
 TI pH regulation of recombinant glucoamylase production in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, a transformant with a *Fusarium oxysporum* alkaline (trypsin-like) protease promoter  
 AU Wiebe, Marilyn G.; Robson, Geoffrey D.; \*\*\*Shuster, Jeffrey R.\*\*\* ; Trinci, Anthony P. J.  
 AB \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* (formerly \*\*\*Fusarium\*\*\* graminearum) JeRS 325 produces heterologous glucoamylase (GAM) under the regulation of a *Fusarium oxysporum* alk. (trypsin-like) protease promoter. The glucoamylase gene was used as a reporter gene to study the effects of ammonium and pH on GAM prodn. under the control of the alk. protease promoter. Between pH 4.0 and 5.8, GAM prodn. in glucose-limited chemostat cultures of JeRS 325 grown at a diln. rate of 0.10 h-1 (doubling time, 6.9 h) on (NH4)2SO4 medium increased in a linear manner with increase in pH. However, at pH 4.0 and below GAM prodn. was almost completely repressed in glucose-limited chemostat cultures grown on (NH4)2SO4 or NaNO3 medium. Thus GAM prodn. in JeRS 325 is regulated by culture pH, not by the nature of the nitrogen source in the medium. The difficulty of using unbuffered medium when investigating putative ammonium repression is also shown.  
 The study demonstrates the potential for use of the alk. protease promoter in *F. graminearum* for the prodn. of recombinant proteins in a pH dependent manner.  
 IT Gene, microbial  
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (for alk. protease; pH regulation of recombinant glucoamylase prodn. in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, transformant with *Fusarium oxysporum* alk. (trypsin-like) protease promoter)  
 IT *Fusarium oxysporum*  
*Fusarium venenatum*  
 (pH regulation of recombinant glucoamylase prodn. in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, transformant with *Fusarium oxysporum* alk. (trypsin-like) protease promoter)  
 IT Promoter (genetic element)  
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (pH regulation of recombinant glucoamylase prodn. in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, transformant with *Fusarium oxysporum* alk. (trypsin-like) protease promoter)  
 IT 9001-92-7, Protease  
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (alk.; pH regulation of recombinant glucoamylase prodn. in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, transformant with *Fusarium oxysporum* alk. (trypsin-like) protease promoter)  
 IT 9032-08-0P, Glucoamylase  
 RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (pH regulation of recombinant glucoamylase prodn. in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, transformant with *Fusarium oxysporum* alk. (trypsin-like) protease promoter)  
 IT 14798-03-9, Ammonium, biological studies  
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (pH regulation of recombinant glucoamylase prodn. in \*\*\*Fusarium\*\*\* \*\*\*venenatum\*\*\* JeRS 325, transformant with *Fusarium oxysporum* alk.



(trypsin-like) protease promoter)

=> d is

'IS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB  
ALL ----- BIB, AB, IND, RE  
APPS ----- AI, PRAI  
BIB ----- AN, plus Bibliographic Data and PI table (default)  
CAN ----- List of CA abstract numbers without answer numbers  
CBIB ----- AN, plus Compressed Bibliographic Data  
DALL ----- ALL, delimited (end of each field identified)  
DMAX ----- MAX, delimited for post-processing  
FAM ----- AN, PI and PRAI in table, plus Patent Family data  
FBIB ----- AN, BIB, plus Patent FAM  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
MAX ----- ALL, plus Patent FAM, RE  
PATS ----- PI, SO  
SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
SCAN must be entered on the same line as the DISPLAY,  
e.g., D SCAN or DISPLAY SCAN)  
STD ----- BIB, IPC, and NCL  
  
IABS ----- ABS, indented with text labels  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels  
ISTD ----- STD, indented with text labels  
  
OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OIBIB, indented with text labels  
  
SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations  
  
HIT ----- Fields containing hit terms  
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
containing hit terms  
HITRN ----- HIT RN and its text modification  
HITSTR ----- HIT RN, its text modification, its CA index name, and  
its structure diagram  
FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
its structure diagram  
KWIC ----- Hit term plus 20 words on either side  
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI, TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.  
ENTER DISPLAY FORMAT (BIB):end

=> d his

(FILE 'HOME' ENTERED AT 16:08:42 ON 27 JUN 2001)

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 16:09:12 ON 27 JUN 2001

L1 0 S FUSARIUM NEAR3 VENENATUM  
L2 66 S VENENATUM  
L3 0 S FUSARIA (3N) VENENATUM  
L4 55 S FUSARI? (3N) VENENATUM  
L5 66 S L2 OR L4  
L6 423537 S RECOMBINANT  
L7 18 S L6 (10N) L5  
L8 9 DUP REM L7 (9 DUPLICATES REMOVED)  
L9 0 S L8 AND PY<1995  
E ROYER JOHN/AU  
L10 24 S E3 OR E4  
L11 18 DUP REM L10 (6 DUPLICATES REMOVED)  
L12 1 S L5 AND L11  
E MOYER DONNA/AU  
L13 16 S E3 OR E4  
L14 12 DUP REM L13 (4 DUPLICATES REMOVED)  
L15 3 S L14 AND L11  
E YODER WENDY/AU  
L16 16 S E2-E4

L17 8 S L16 AND L5  
L18 4 DUP REM L17 (4 DUPLICATES REMOVED)  
E SHUSTER JEFFREY/AU  
L19 55 S E2-E5  
L20 7 S L19 AND L5  
L21 4 DUP REM L20 (3 DUPLICATES REMOVED)

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	73.52	73.67
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		SINCE FILE
TOTAL		
CA SUBSCRIBER PRICE	-4.70	-4.70

STN INTERNATIONAL LOGOFF AT 16:19:14 ON 27 JUN 2001